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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/672,943	09/28/2000	Mitsugu Kobayashi	YKI-0053	7622
23413	7590 08/03/2004		EXAMINER	
CANTOR COLBURN, LLP			NGUYEN, KIMNHUNG T	
55 GRIFFIN ROAD SOUTH BLOOMFIELD, CT 06002			ART UNIT	PAPER NUMBER
	,		2674	10
			DATE MAILED: 08/03/2004	13

Please find below and/or attached an Office communication concerning this application or proceeding.

0	Application No.	Applicant(s)
	09/672,943	KOBAYASHI ET AL.
Office Action Summary	Examiner	Art Unit
	Kimnhung Nguyen	2674
The MAILING DATE of this communic Period for Reply	cation appears on the cover sheet with	h the correspondence address
A SHORTENED STATUTORY PERIOD FO THE MAILING DATE OF THIS COMMUNIC - Extensions of time may be available under the provisions o after SIX (6) MONTHS from the mailing date of this commu - If the period for reply specified above is less than thirty (30) - If NO period for reply is specified above, the maximum statu - Failure to reply within the set or extended period for reply w Any reply received by the Office later than three months aft earned patent term adjustment. See 37 CFR 1.704(b).	CATION. f 37 CFR 1.136(a). In no event, however, may a reprincation. d days, a reply within the statutory minimum of thirty utory period will apply and will expire SIX (6) MONT will, by statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communication. NDONED (35 U.S.C. § 133).
Status		
1) Responsive to communication(s) filed 2a) This action is FINAL . 2i 3) Since this application is in condition for closed in accordance with the practice.	b) This action is non-final. or allowance except for formal matte	•
Disposition of Claims		
4) ☐ Claim(s) 2-10 is/are pending in the ap 4a) Of the above claim(s) is/are 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 2-4 is/are rejected. 7) ☐ Claim(s) 5-10 is/are objected to. 8) ☐ Claim(s) are subject to restriction.	e withdrawn from consideration.	
Application Papers		
9) The specification is objected to by the 10) The drawing(s) filed on is/are: Applicant may not request that any object Replacement drawing sheet(s) including to 11) The oath or declaration is objected to	a) accepted or b) objected to by ion to the drawing(s) be held in abeyance the correction is required if the drawing(s)	e. See 37 CFR 1.85(a).) is objected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for a) All b) Some * c) None of: 1. Certified copies of the priority d 2. Certified copies of the priority d 3. Copies of the certified copies of application from the Internations * See the attached detailed Office action	ocuments have been received. ocuments have been received in Ap f the priority documents have been re al Bureau (PCT Rule 17.2(a)).	plication No eceived in this National Stage
Attachment(s)		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-893) Information Disclosure Statement(s) (PTO-1449 or Pipaper No(s)/Mail Date	-	Mail Date commal Patent Application (PTO-152)

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DETAILED ACTION

This Application has been examined. The claims 2-10 are pending. The examination results are as following.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 2-3 are rejected under 35 U.S.C. 102(e) as being anticipated by Mumford (US 6,377,249).

Regarding claim 2, Mumford discloses in figure 1, a digitizing apparatus (light pen 20) comprising a light emitting display device (see column 6, lines 20-21) having a plurality of display pixels (14) disposed in a matrix and a detector (see photo sensitive detector 23r) in contact with the display surface of the display device (12) for detecting an emissive state of a display pixel at the position of contact (see column 7, lines 59-65), wherein said plurality of display pixels to emit light in a predetermined sequence for obtaining coordinate information of the position of contact of the detector (see column 1, lines 44-48).

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Regarding claim 3, Mumford discloses in figure 1, a digitizing apparatus comprising an electroluminescence display having a plurality of display pixels (14) disposed in a matrix; a pen (20) for contacting the display surface of said display and for detecting the emissive state of the display pixel at the position of contact (see column 7, lines 59-65); a display control circuit for displaying a image on said display by determining timing of horizontal scanning and vertical scanning and for causing said plurality of display pixels to emit light in dot sequence with the timing of horizontal scanning and vertical scanning; and a digitizing processing circuit for generating coordinate information on the basis of change in detection output of said pen with respect to timing of horizontal scanning and vertical scanning of said display control circuit (see column 1, lines 44-48).

3. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over Mumford (US 6,377,249) in view of Tomio et al. (US patent 5,745,085).

Mumford discloses in figure 1, a digitizing apparatus (light pen 20) comprising a light emitting display device (see column 6, lines 20-21) having a plurality of display pixels (14) disposed in a matrix and a detector (see photo sensitive detector 23r) in contact with the display surface of the display device (12) for detecting an emissive state of a display pixel at the position of contact (see column 7, lines 59-65), wherein said plurality of display pixels to emit light in a predetermined sequence for obtaining coordinate information of the position of contact of the detector (see column 1, lines 44-48). However, Munford does not disclose wherein the electro luminescence display comprises a horizontal driver circuit for applying a voltage to each column of the plurality of

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display pixels at the timing of horizontal scanning; and a vertical driver circuit for driving the plurality of display pixels in row units at the timing of vertical scanning. Tomio et al. disclose in figure 1, a electroluminescence display comprises a horizontal driver circuit (31) for applying a voltage (39) to each column of the plurality of display pixels at the timing of horizontal scanning; and a vertical driver circuit for driving the plurality of display pixels in row units at the timing of vertical scanning (see figure 1). It would have been obvious to one of ordinary skill in the art at the time the invention was made to utilize the teachings of the horizontal driver circuit for applying a voltage to each column of the plurality of display pixels at the timing of horizontal scanning; and a vertical driver circuit for driving the plurality of display pixels in row units at the timing of vertical scanning as taught by Tomio et al. into the digitizing apparatus of Mumford's system because this would control the current which increases the turn-on display rate of the cell portion and detect the current flowing into the cell portion.

Allowable Subject Matter

4. Claims 5-10 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter:

The present invention is directed to a digitizing apparatus comprising an electroluminescence display having a plurality of display pixels disposed in a matrix; a pen for contacting the display surface of said display and for detecting the emissive state of the display pixel at the position of

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contact; a display control circuit for displaying a image on said display by determining timing of horizontal scanning and vertical scanning and for causing said plurality of display pixels to emit light in dot sequence with the timing of horizontal scanning and vertical scanning; and a digitizing processing circuit for generating coordinate information on the basis of change in detection output of said pen with respect to timing of horizontal scanning and vertical scanning of said display control circuit. The combination of closest prior art, Mumford (US 6,377,249) and Tomio et al. (US patent 5,745,085) show a similar system which also disclose an electroluminescence display having a plurality of display pixels disposed in a matrix; a pen for contacting the display surface of said display and for detecting the emissive state of the display pixel at the position of contact (see column 7, lines 59-65); a display control circuit for displaying a image on said display by determining timing of horizontal scanning and vertical scanning and for causing said plurality of display pixels to emit light in dot sequence with the timing of horizontal scanning and vertical scanning; and a digitizing processing circuit for generating coordinate information on the basis of change in detection output of said pen with respect to timing of horizontal scanning and vertical scanning of said display control circuit. However, they fail to teach wherein the display control circuit causes said plurality of display pixels to emit light at a predetermined luminance in dot sequence one row at a time during a blanking period of each horizontal scanning or horizontal scanning period as claims 5 and 7; or at a time in dot sequence during a second horizontal or vertical scanning period as claims 6 and 8; or said display control causes said plurality of display pixels to emit light at a predetermined luminance after once setting said plurality of display pixels to a none-emissive state as claims 9-10.

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Response To Arguments

4. Applicant's argument filed on 2-27-04 has been fully considered but they are not persuasive in view of new ground rejection.

Applicant argues that the prior art does not disclose "a pen for contacting the display surface of said display and for detecting the emissive state of the display pixel at the position of contact". However, this argument is not persuasive due to the new ground rejection as discusses above.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kimnhung Nguyen whose telephone number (703) 308-0425.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, RICHARD A HJERPE can be reached on (703) 305-4709.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D. C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only).

Hand-delivery response should be brought to: Crystal Park II, 2121 Crystal Drive, Arlington, VA Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Kimnhung Nguyen July 24, 2004

RICHARD HJERPE

SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600